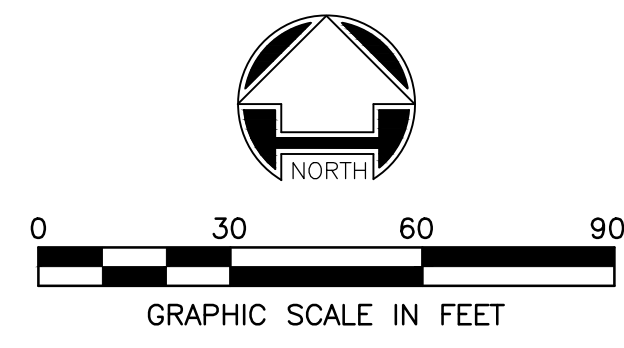
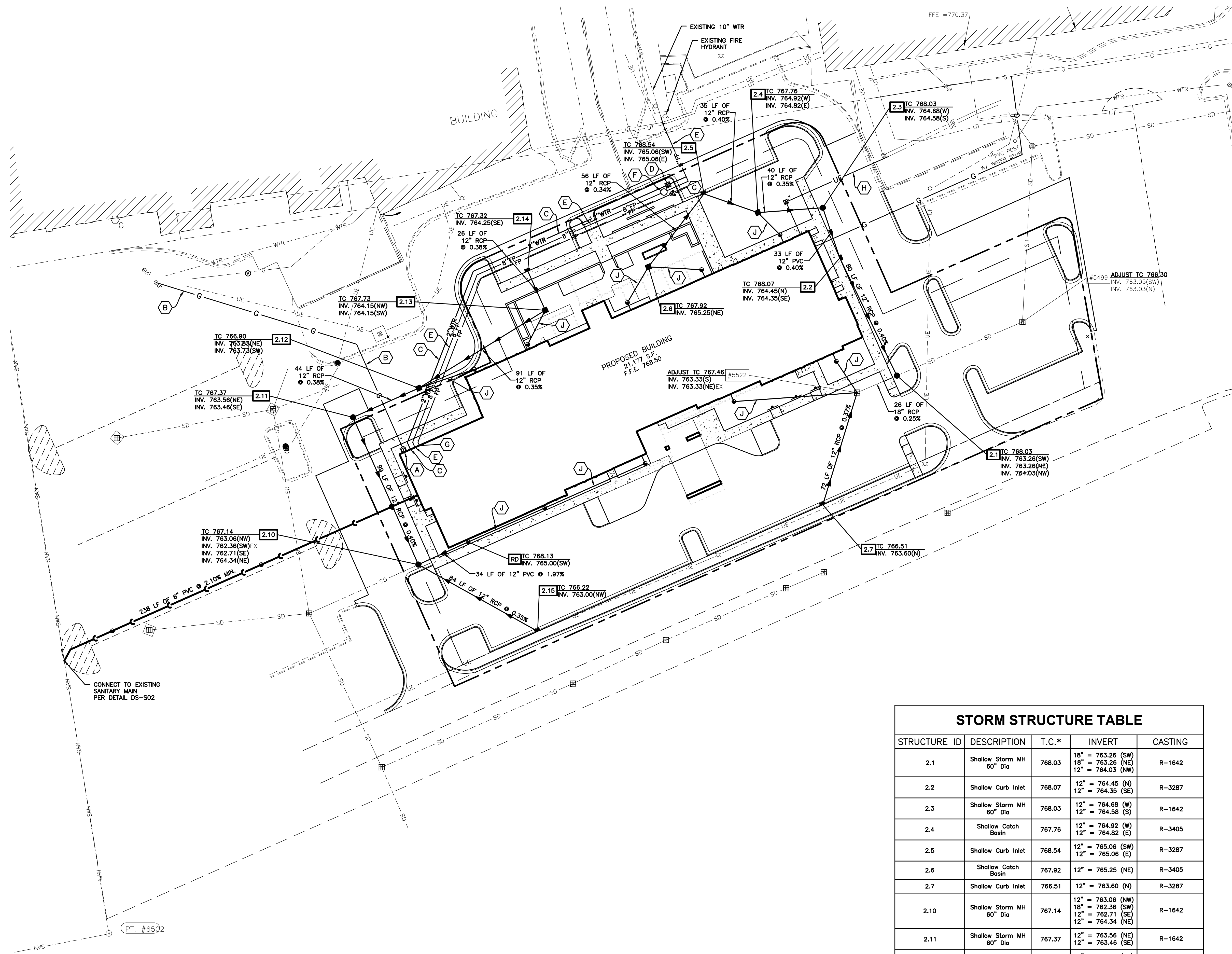


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LEGEND

EXISTING	PROPOSED
■	STORM CURB INLET
■	STORM INLET
■	STORM BEEHIVE INLET
●	STORM MANHOLE
●	STORM CLEANOUT
●	SANITARY MANHOLE
●	SANITARY CLEANOUT
□	STORM STRUCTURE NUMBER
□	SANITARY STRUCTURE NUMBER
—SD—	STORM SEWER
—SAN—	SANITARY SEWER
—WTR—	WATER LINE
⊙	FIRE HYDRANT
⊙	FIRE DEPARTMENT CONNECTION
⊙	WATER VALVE
⊙	GAS
⊙	GAS METER
⊙	GAS VALVE
⊙	UNDERGROUND ELECTRIC
⊙	ELECTRIC STRUCTURE
⊙	TRANSFORMER
⊙	UNDERGROUND TELEPHONE
⊙	UTILITY STRUCTURE
⊙	LIGHT POLE
⊙	SIGN

- KEY NOTES**
- A GAS METER
 - B PROPOSED GAS SERVICE; COORDINATE WITH GAS COMPANY
 - C PROPOSED 2" DOMESTIC WATER
 - D PROPOSED 1 1/2" DOMESTIC METER SETTING
 - E PROPOSED 8" FIRE PROTECTION
 - F PROPOSED FIRE METER VAULT
 - G FIRE DEPARTMENT CONNECTION
 - H COORDINATE ELECTRIC SERVICE WITH ELECTRIC COMPANY
 - J 6" PVC ROOF DRAIN @ 1.00% (MIN.)

- UTILITY NOTES**
1. ROOF DRAINS, FOUNDATION DRAINS, AND OTHER CLEAN WATER CONNECTIONS TO THE SANITARY SEWER SYSTEM ARE PROHIBITED.
 2. SANITARY MANHOLES SHALL BE PRECAST CONCRETE OR MONOLITHIC, CONSTRUCTED OF CLASS "A" 4,000 PSI CONCRETE, AND CONFORMING TO ASTM C-478.
 3. JOINTS BETWEEN PRECAST SANITARY MANHOLE SECTIONS SHALL CONFORM TO ASTM C-443.
 4. SANITARY SEWER PIPE AND FITTINGS MAY BE EITHER PVC THAT CONFORMS TO ASTM D-3034, SDR 35 WITH A MINIMUM CELL CLASSIFICATION OF 12454-B, OR REINFORCED CONCRETE PIPE CLASS III, IV, OR V IN ACCORDANCE WITH ASTM C-76, OR DUCTILE IRON PIPE CONFORMING TO ANSI SPECIFICATIONS A21.51 AND AWWA C-151, OR HIGH DENSITY POLYETHYLENE PIPE CONFORMING TO ASTM-3350 CELL CLASS P.E. 3344 33C.
 5. CONSTRUCTION SHALL NOT COMMENCE UNTIL AN IMPROVEMENT LOCATION PERMIT HAS BEEN OBTAINED.
 6. WATER MAINS CROSSING ANY AND ALL SEWERS SHALL HAVE A MINIMUM VERTICAL SEPARATION OF 18" BETWEEN THE OUTSIDE OF THE WATER MAIN PIPE AND THE SEWER PIPE. ONE FULL LENGTH OF WATER MAIN PIPE SHALL BE CENTERED AT THE POINT OF THE CROSSING SUCH THAT BOTH JOINTS WILL BE EQUIDISTANT AND AS FAR AWAY FROM THE SEWER AS POSSIBLE. IF WATER LINE(S) CROSS BELOW SANITARY SEWER LINE(S), SEWER LINE MUST BE CONSTRUCTED OF EITHER DUCTILE IRON PIPING OR OF 200 psi PVC (SDR-21 OR EQUIVALENT) FOR THAT PARTICULAR SPAN.
 7. EXISTING UNDERGROUND UTILITIES ARE SHOWN IN THEIR APPROXIMATE LOCATIONS ACCORDING TO THE BEST AVAILABLE INFORMATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE EXACT LOCATION OF THE EXISTING UTILITIES AND REPAIRING ANY DAMAGE DONE TO THE UTILITIES DURING PROBING OR CONSTRUCTION. TO OBTAIN ACCURATE FIELD LOCATIONS OF EXISTING UNDERGROUND UTILITIES, THE CONTRACTOR SHALL NOTIFY THE FOLLOWING FORTY-EIGHT (48) HOURS IN ADVANCE: INDIANA UNDERGROUND CABLE LOCATION 1-800-382-5544.
 8. ALL STORM DRAINAGE CONSTRUCTION SHALL BE PERFORMED IN ACCORDANCE WITH LOCAL STORM SEWER SPECIFICATIONS AND REQUIREMENTS.
 9. FIELD TILE ENCOUNTERED SHALL BE REPLACED AND/OR CONNECTED TO THE STORM SEWER SYSTEM.
 10. SIDE SLOPES 3:1 OR GREATER WILL BE SODDED OR STABILIZED WITH AN EROSION CONTROL BLANKET.
 11. ALL EARTHEN AREAS DISTURBED DURING CONSTRUCTION SHALL HAVE TEMPORARY SEEDING AND MULCHING.
 12. SILT FENCE AROUND STRUCTURES IN PAVEMENT AREA ARE TO BE INSTALLED PRIOR TO PAVING CONSTRUCTION.
 13. GRANULAR BACKFILL REQUIRED FOR ALL PIPE UNDER PAVEMENT AND WITHIN 5 FEET OF PAVEMENT.
 14. THE CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE AT HIS EXPENSE ALL AUTOMOBILE AND PEDESTRIAN TRAFFIC CONTROL DEVICES REQUIRED BY FEDERAL, STATE, COUNTY, CITY OR LOCAL AGENCY. THE AMOUNT, LOCATION AND SIZE SHALL BE PER DIRECTION OF AGENCY.

STORM STRUCTURE TABLE

STRUCTURE ID	DESCRIPTION	T.C.*	INVERT	CASTING
2.1	Shallow Storm MH 60" Dia	768.03	18" = 763.26 (SW) 18" = 763.26 (NE) 12" = 764.03 (NW)	R-1642
2.2	Shallow Curb Inlet	768.07	12" = 764.45 (N) 12" = 764.35 (SE)	R-3287
2.3	Shallow Storm MH 60" Dia	768.03	12" = 764.68 (W) 12" = 764.58 (S)	R-1642
2.4	Shallow Catch Basin	767.76	12" = 764.92 (W) 12" = 764.82 (E)	R-3405
2.5	Shallow Curb Inlet	768.54	12" = 765.06 (SW) 12" = 765.06 (E)	R-3287
2.6	Shallow Catch Basin	767.92	12" = 765.25 (NE)	R-3405
2.7	Shallow Curb Inlet	766.51	12" = 763.60 (N)	R-3287
2.10	Shallow Storm MH 60" Dia	767.14	12" = 763.06 (NW) 18" = 762.36 (SW) 12" = 762.71 (SE) 12" = 764.34 (NE)	R-1642
2.11	Shallow Storm MH 60" Dia	767.37	12" = 763.56 (NE) 12" = 763.46 (SE)	R-1642
2.12	Shallow Catch Basin	766.90	12" = 763.83 (NE) 12" = 763.73 (SW)	R-3405
2.13	Shallow Catch Basin	767.73	12" = 764.15 (NW) 12" = 764.15 (SW)	R-3405
2.14	Shallow Curb Inlet	767.32	12" = 764.25 (SE)	R-3287
2.15	Shallow Curb Inlet	766.22	12" = 763.00 (NW)	R-3287

*T.C. SHALL INDICATE THE ELEVATION THAT WATER WOULD ENTER A STRUCTURE WHEN STRUCTURE IS NOT A CURB INLET. T.C. SHALL INDICATE TOP OF CURB WHEN STRUCTURE IS A CURB INLET.

REVISION	No.	DATE
PROJECT No:	78587	DATE
	7/18/18	DES.
PROJECT No:	78587	DR.
	7/18/18	CKD.
7635 Interactive Way Suite 100 Indianapolis, IN 46276 317.299.7500 FAX: 317.291.5805		
WOOLPERT ARCHITECTURAL ENGINEERING (INCORPORATED)		
COURTYARD BY MARRIOTT THE SHOPS AT PERRY CROSSING		
PLAINFIELD, INDIANA UTILITY PLAN		
SHEET NO.		
C400		